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1  /*
2  Display.h - A simple track GPS to SD card logger. Display module.
3  TinyTrackGPS v0.12
4
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7
8  rafael.reyes.carmona@gmail.com
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24  */
25
26  #if ARDUINO >= 100
27    #include "Arduino.h"
28  #else
29    #include "WProgram.h"
30  #endif
31
32  #ifndef Display_h
33  #define Display_h
34
35  #include "config.h"
36
37  #if defined(DISPLAY_TYPE_LCD_16X2)
38    #include <LiquidCrystal.h>
39  #elif defined(DISPLAY_TYPE_LCD_16X2_I2C)
40    #include <LiquidCrystal_I2C.h>
41  #elif defined(DISPLAY_TYPE_SDD1306_128X64)
42    #define U8X8_HAVE_HW_I2C
43    #include <U8x8lib.h>
44    //#include <U8g2lib.h>
45  #elif defined(DISPLAY_TYPE_SDD1306_128X64_lcdgfx)
46    #include <lcdgfx.h>
47
48  #endif
49
50  enum Display_Type {
51      SDD1306_128X64,    // Para usar pantalla OLED 0.96" I2C 128x64 pixels
52      LCD_16X2,         // Para usar LCD 16 x 2 caracteres.
53      LCD_16X2_I2C      // Para usar LCD 16 x 2 caracteres. I2C.
54  };
55
56  class Display {
57  private:
58      //byte _offset;
59      byte _width;      // Width pixels or numbers of columns for LCD.

```

```

60     byte _height;          // Height pixels os numbers of rows for LCD.
61     Display_Type _screen;
62     #if defined(DISPLAY_TYPE_LCD_16X2)
63         LiquidCrystal* lcd;
64     #elif defined(DISPLAY_TYPE_LCD_16X2_I2C)
65         LiquidCrystal_I2C* lcd;
66     #elif defined(DISPLAY_TYPE_SDD1306_128X64)
67         //U8G2_SSD1306_128X64_NONAME_1_HW_I2C* u8g2_SSD1306;
68         U8X8_SSD1306_128X64_NONAME_HW_I2C* u8x8_SSD1306;
69     #elif defined(DISPLAY_TYPE_SDD1306_128X64_lcdgfx)
70         DisplaySSD1306_128x64_I2C* display;
71     #elif defined(DISPLAY_TYPE_HX1230_96X68)
72         U8G2_HX1230_96X68_1_3W_SW_SPI* u8g2_HX1230;
73     #endif
74
75     public:
76         Display(Display_Type t = SDD1306_128X64);
77         Display() = delete;                                // Constructor por defecto.
78         Display(const Display&) = delete;                   // Constructor de copia.
79
80         void start();
81         void clr();
82         void print(int, int, const char[]);
83         void print(int, const char[]);
84         void print(const char[]);
85         void print(const char[], const char[]);
86         void print(const char[], const char[], const char[]);
87         void print(const char[], const char[], const char[], const char[]);
88         void wait_anin(unsigned int);
89         void draw_wait(byte);
90         void print_PChar(byte);
91         void DrawLogo();
92         void drawbattery(uint8_t);
93         Display_Type display_type(){return _screen;};
94 };
95
96 extern const uint8_t TinyTrackGPS_font8x16[] PROGMEM;
97
98 #endif

```